AECOM Environment

Fourth Quarter 2020 – October, November, December Operation, Maintenance, and Monitoring Report

CHEM-TROL Site
NYSDEC Site No. 9-15-015
Report.hw915015.2021-03-13.4Q2020OMM

Site:
CHEM-TROL Site
4800 Lake Avenue
Blasdell, New York 14219

Submitted to:
NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

Prepared for:
Waste Management
100 Brandywine Boulevard, Suite 300
Newtown, PA 18940

Prepared by:
AECOM
257 West Genesee Street, Suite 400
Buffalo, New York 14202

March 13, 2021

AECOM Project No. 60652207.1

AECOM
257 West Genesee St.
Suite 400
Buffalo, NY 14202
www.aecom.com

716 856 5636 tel
716 856 2545 fax

March 13, 2021

SUBMITTED VIA ELECTRONIC MAIL

Mr. Glenn May, PG
NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

RE: S.C. Holdings, Inc., 4818 Lake Avenue, Blasdell, New York 14219
Fourth Quarter 2020 Operation, Maintenance, and Monitoring Report
Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2021-03-13.4Q2020OMM

Dear Mr. May:

Enclosed please find the Fourth Quarter 2020 (4Q20 – October, November, December) Operation, Maintenance, and Monitoring Report for the "Chem-Trol" project site. AECOM is submitting this quarterly monitoring report on behalf of our client, S.C. Holdings, Inc.

The enclosed report contains the following information for 4Q20:

- Operation, Maintenance and Monitoring Checklists
- Summary Tables of Analytical Results and Flow Readings
- Copies of Analytical Results and Chain-of-Custody Forms

A summary of each month within 4Q20 is as follows:

October 2020

On October 2, 2020, AECOM performed a site visit and observed the system was off upon arrival and no water was flowing to the outfall. Matrix Environmental Technologies, Inc. (Matrix) visited the site on October 13, 2020 and determined that the air stripper blower motor had failed and required replacement. NYSDEC was notified of the condition on October 13, 2020. The system remained shut down until October 26, 2020, when Matrix visited the site and performed the necessary repairs including installing a re-built motor for the air stripper blower.

AECOM collected the monthly monitoring samples on October 30, 2020; analytical data were received on November 9, 2020. As presented on Table 1 (October 30, 2020), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

November 2020

AECOM collected the monthly monitoring samples on November 24, 2020; analytical data were received on December 14, 2020. As presented on Table 1 (November 24, 2020), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

December 2020

On December 24, 2020, AECOM performed a site visit and observed the system was off upon arrival and no water was flowing to the outfall. Matrix visited the site that afternoon and performed repairs to the blower fan shaft assembly. On December 29, 2020, AECOM again visited the site and observed the system was not running and required service. NYSDEC was notified of the condition on December 31, 2020. Matrix visited the site on the morning of January 4, 2021 and found that the blower fan had a thermal overload fault. Matrix reset and restarted the system.

AECOM collected the December 2020 monthly monitoring samples on the afternoon of January 4, 2021; analytical data were received on January 7, 2021. As presented on Table 1 (January 4, 2021), an exceedance of the treatment requirement for o-chlorotouene was observed in the aqueous effluent sample based on concentration (11 µg/L result vs. 10 µg/L criterion) but not mass loading.

On January 15, 2021, AECOM visited the site for the quarterly acid wash and found that the system was off upon arrival due to blower fan shaft failure. AECOM completed the flush-and-rinse acid wash of the air-stripper trays and scheduled a maintenance visit. Matrix visited the site that day and determined the blower fan required replacement. Replacement parts were ordered and the fan was replaced on February 5, 2021.

Due to these system repairs the January 2021 samples were collected on February 9, 2021; analytical data were received on February 18, 2021. As presented on Table 1 (February 9, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

AECOM also collected the 4Q20 quarterly groundwater levels on January 4, 2021.

Other

Hydro-pressure (“jet”) cleaning of the effluent discharge line from the treatment building to the outlet at Smokes Creek was completed October 26, 2020. This cleaning is performed on an approximately two-year cycle to remove accumulated iron fouling in the discharge line.

Additional work performed on October 26, 2020, included installation of a Sensaphone remote monitoring system for the treatment system. The system provides remote access for main power on/off, receovery wells on/off, and air stipper on/off. Installation of the system provides real-time information as to system operational status without having to visit the site in person.

The annual groundwater monitoring samples were collected on November 20, 2020. Samples were collected from MW-3S, MW-7R, MW-8R, MW-9R, MW-13R, and MW-15R. Data will be reported in the annual Periodic Review Report for February 1, 2020 through January 31, 2021; report is due March 17, 2021.

If you have any questions regarding the information presented in this report please contact me at (716) 923-1300.

Very truly yours,
AECOM

James L. Kaczor
Project Manager

Enclosure

cc: Mr. Chad Moose (Waste Management) (electronic copy)
Ryan Donovan, (Waste Management) (electronic copy)
Mr. Brian Sadowski, NYSDEC (electronic copy)
60652207 Project File

October 2020

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 55 F
Date: 10/02/2020 Arrival Time: 12:00 Departure Time: 16:30

Reason for Service: Inspect system

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See comments section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		Condensation on the floor; slight drip from air stripper
Building Heater	X	Breaker turned on. Was off on arrival.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	
EW-1 Transducer	**X**	
EW-1 Flow Meter	**X**	
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall		System was off upon arrival. No discharge at outfall.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe (no discharge)

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	223 Inches
Flow Meter Reading	8,444,688 Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	187 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	223 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	0.0 Inches H2O

Effluent Flow

Total System Meter Reading	71,280,782 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH NA (field test strip)
Effluent pH NA (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

Total system flow on system totalizer flow meter timed at 0.0 gpm.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (3Q2020) were collected on September 17, 2020.

The most recent acid wash was performed on September 16, 2020 by Matrix Technologies Inc.

No samples were collected today due to the system being down. It believed to be a problem with the air stripper blower. Matrix has been called to inspect/fix the problem.

No wells were operational upon arrival and departure due to the system/ air stripper being down.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 55 F
Date: 10/30/2020 Arrival Time: 13:00 Departure Time: 14:30

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See comments section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		Condensation on the floor; slight drip from air stripper
Building Heater	X	Breaker turned on. Was off on arrival.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	
EW-1 Transducer	**X**	
EW-1 Flow Meter	**X**	
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall		.
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	282 Inches
Flow Meter Reading	8,444,688 Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	175 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	194 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	12.5 Inches H2O

Effluent Flow

Total System Meter Reading	71,293,303 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

Total system flow on system totalizer flow meter timed at 4.0 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (3Q2020) were collected on September 17, 2020.

The most recent acid wash was performed on September 16, 2020 by Matrix Technologies Inc.

Matrix completed repair work on the system including having the air stripper blower motor rebuilt and re installed. The system was up and running and the October 2020 samples were able to be collected today.

Table 1
October 30, 2020 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	515	515	144,000	gpd	NA	NA	NA
pH	7.1	7.8	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0000	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0000	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
o-Chlorotoluene	3,100	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Iron - Total	1,190	862	3,000	ug/L	0.00	3.61	lbs/day
TSS	< 4.0	10.4	20	mg/L	0.04		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured September 17, 2020 through October 30, 2020.*

Table 2
October 30, 2020 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 10/30/2020	units	Prior Report 9/17/2020
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	282	Inches	268
Flow Meter Reading	8,444,688	gallons	8,444,686
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	175	Inches	173
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	194	Inches	188
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	12.5	inches H_2O	11.0
Effluent Flow			
Total System Meter Reading	71,293,303	gallons	71,272,670
Average System Flow Since Prior Report	480	gpd	
	20.0	gph	
	0.3	gpm	
Influent o-Chlorotoluene concentration	3,100	ug/L	
Current month mass removal	0.2	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177410-1
Client Project/Site: ChemTrol Site: Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
11/9/2020 9:34:24 AM

Lisa Shaffer, Senior Project Manager
(716)504-9816
Lisa.Shaffer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177410-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177410-1

Comments
No additional comments.

Receipt
The samples were received on 10/30/2020 3:20 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-177410-2), (480-177410-D-2 MS) and (480-177410-D-2 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-177410-1) and Influent (480-177410-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Client Sample ID: Effluent — Lab Sample ID: 480-177410-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	862		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	10.4		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.8	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.5	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-177410-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	3100	F1	13		ug/L	40		624.1	Total/NA
Iron	1190		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.9	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-177410-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Client Sample ID: Effluent

Date Collected: 10/30/20 13:40
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			11/02/20 16:17	1
1,1-Dichloroethane	ND		5.0		ug/L			11/02/20 16:17	1
1,1-Dichloroethene	ND		5.0		ug/L			11/02/20 16:17	1
Benzene	ND		5.0		ug/L			11/02/20 16:17	1
Chlorobenzene	ND		5.0		ug/L			11/02/20 16:17	1
Chloroethane	ND		5.0		ug/L			11/02/20 16:17	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/02/20 16:17	1
Toluene	ND		5.0		ug/L			11/02/20 16:17	1
Trichloroethene	ND		5.0		ug/L			11/02/20 16:17	1
o-Chlorotoluene	ND		5.0		ug/L			11/02/20 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*68 - 130*		*11/02/20 16:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*		*11/02/20 16:17*	*1*
Toluene-d8 (Surr)	*92*		*77 - 120*		*11/02/20 16:17*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**862**		50.0		ug/L		11/04/20 09:04	11/04/20 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**10.4**		4.0		mg/L			11/04/20 11:55	1
pH	**7.8**	**HF**	0.1		SU			11/03/20 12:32	1
Temperature	**21.5**	**HF**	0.001		Degrees C			11/03/20 12:32	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Client Sample ID: Influent

Date Collected: 10/30/20 13:55
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			11/02/20 16:40	40
1,1-Dichloroethane	ND		24		ug/L			11/02/20 16:40	40
1,1-Dichloroethene	ND		34		ug/L			11/02/20 16:40	40
Benzene	ND		24		ug/L			11/02/20 16:40	40
Chlorobenzene	ND		19		ug/L			11/02/20 16:40	40
Chloroethane	ND		35		ug/L			11/02/20 16:40	40
cis-1,2-Dichloroethene	ND		23		ug/L			11/02/20 16:40	40
Toluene	ND		18		ug/L			11/02/20 16:40	40
Trichloroethene	ND		24		ug/L			11/02/20 16:40	40
o-Chlorotoluene	**3100**	**F1**	13		ug/L			11/02/20 16:40	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*68 - 130*		*11/02/20 16:40*	*40*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*		*11/02/20 16:40*	*40*
Toluene-d8 (Surr)	*93*		*77 - 120*		*11/02/20 16:40*	*40*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1190**		50.0		ug/L		11/04/20 09:04	11/04/20 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/04/20 11:55	1
pH	**7.1**	**HF**	0.1		SU			11/03/20 12:34	1
Temperature	**21.9**	**HF**	0.001		Degrees C			11/03/20 12:34	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Client Sample ID: Trip Blank

Date Collected: 10/30/20 00:00
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			11/02/20 17:03	1
1,1-Dichloroethane	ND		5.0		ug/L			11/02/20 17:03	1
1,1-Dichloroethene	ND		5.0		ug/L			11/02/20 17:03	1
Benzene	ND		5.0		ug/L			11/02/20 17:03	1
Chlorobenzene	ND		5.0		ug/L			11/02/20 17:03	1
Chloroethane	ND		5.0		ug/L			11/02/20 17:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/02/20 17:03	1
Toluene	ND		5.0		ug/L			11/02/20 17:03	1
Trichloroethene	ND		5.0		ug/L			11/02/20 17:03	1
o-Chlorotoluene	ND		5.0		ug/L			11/02/20 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*68 - 130*		*11/02/20 17:03*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*11/02/20 17:03*	*1*
Toluene-d8 (Surr)	*93*		*77 - 120*		*11/02/20 17:03*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-556892/8
Matrix: Water
Analysis Batch: 556892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			11/02/20 11:22	1
1,1-Dichloroethane	ND		5.0		ug/L			11/02/20 11:22	1
1,1-Dichloroethene	ND		5.0		ug/L			11/02/20 11:22	1
Benzene	ND		5.0		ug/L			11/02/20 11:22	1
Chlorobenzene	ND		5.0		ug/L			11/02/20 11:22	1
Chloroethane	ND		5.0		ug/L			11/02/20 11:22	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/02/20 11:22	1
Toluene	ND		5.0		ug/L			11/02/20 11:22	1
Trichloroethene	ND		5.0		ug/L			11/02/20 11:22	1
o-Chlorotoluene	ND		5.0		ug/L			11/02/20 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*68 - 130*		*11/02/20 11:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*11/02/20 11:22*	*1*
Toluene-d8 (Surr)	*93*		*77 - 120*		*11/02/20 11:22*	*1*

Lab Sample ID: LCS 480-556892/6
Matrix: Water
Analysis Batch: 556892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	17.0		ug/L		85	52 - 162
1,1-Dichloroethane	20.0	18.9		ug/L		95	59 - 155
1,1-Dichloroethene	20.0	20.2		ug/L		101	1 - 234
Benzene	20.0	19.3		ug/L		97	37 - 151
Chlorobenzene	20.0	18.9		ug/L		94	37 - 160
Chloroethane	20.0	21.5		ug/L		108	14 - 230
Toluene	20.0	18.7		ug/L		93	47 - 150
Trichloroethene	20.0	18.6		ug/L		93	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*93*		*77 - 120*

Lab Sample ID: 480-177410-2 MS
Matrix: Water
Analysis Batch: 556892

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		800	674		ug/L		84	52 - 162
1,1-Dichloroethane	ND		800	746		ug/L		93	59 - 155
1,1-Dichloroethene	ND		800	808		ug/L		101	1 - 234
Benzene	ND		800	777		ug/L		97	37 - 151
Chlorobenzene	ND		800	746		ug/L		93	37 - 160
Chloroethane	ND		800	846		ug/L		106	14 - 230
Toluene	ND		800	733		ug/L		92	47 - 150
Trichloroethene	ND		800	741		ug/L		93	71 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*80*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*95*		*77 - 120*

Lab Sample ID: 480-177410-2 MSD
Matrix: Water
Analysis Batch: 556892

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		800	626		ug/L		78	52 - 162	7	15
1,1-Dichloroethane	ND		800	715		ug/L		89	59 - 155	4	15
1,1-Dichloroethene	ND		800	735		ug/L		92	1 - 234	10	15
Benzene	ND		800	739		ug/L		92	37 - 151	5	15
Chlorobenzene	ND		800	715		ug/L		89	37 - 160	4	15
Chloroethane	ND		800	783		ug/L		98	14 - 230	8	15
Toluene	ND		800	716		ug/L		90	47 - 150	2	15
Trichloroethene	ND		800	703		ug/L		88	71 - 157	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*83*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*94*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-557228/1-A
Matrix: Water
Analysis Batch: 557589

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 557228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		11/04/20 09:04	11/04/20 18:32	1

Lab Sample ID: LCS 480-557228/2-A
Matrix: Water
Analysis Batch: 557589

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 557228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	9704		ug/L		97	85 - 115

Lab Sample ID: 480-177410-1 MS
Matrix: Water
Analysis Batch: 557589

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 557228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	862		10000	10290		ug/L		94	70 - 130

Lab Sample ID: 480-177410-1 MSD
Matrix: Water
Analysis Batch: 557589

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 557228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	862		10000	10360		ug/L		95	70 - 130	1	20

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-557177/1
Matrix: Water
Analysis Batch: 557177

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/04/20 11:55	1

Lab Sample ID: LCS 480-557177/2
Matrix: Water
Analysis Batch: 557177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			928	923.2		mg/L		100	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-557173/45
Matrix: Water
Analysis Batch: 557173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.1		SU		101	99 - 101		

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

GC/MS VOA

Analysis Batch: 556892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177410-1	Effluent	Total/NA	Water	624.1	
480-177410-2	Influent	Total/NA	Water	624.1	
480-177410-3	Trip Blank	Total/NA	Water	624.1	
MB 480-556892/8	Method Blank	Total/NA	Water	624.1	
LCS 480-556892/6	Lab Control Sample	Total/NA	Water	624.1	
480-177410-2 MS	Influent	Total/NA	Water	624.1	
480-177410-2 MSD	Influent	Total/NA	Water	624.1	

Metals

Prep Batch: 557228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177410-1	Effluent	Total Recoverable	Water	200.7	
480-177410-2	Influent	Total Recoverable	Water	200.7	
MB 480-557228/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-557228/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-177410-1 MS	Effluent	Total Recoverable	Water	200.7	
480-177410-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 557589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177410-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	557228
480-177410-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	557228
MB 480-557228/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	557228
LCS 480-557228/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	557228
480-177410-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	557228
480-177410-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	557228

General Chemistry

Analysis Batch: 557173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177410-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-177410-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-557173/45	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 557177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177410-1	Effluent	Total/NA	Water	SM 2540D	
480-177410-2	Influent	Total/NA	Water	SM 2540D	
MB 480-557177/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-557177/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Client Sample ID: Effluent
Date Collected: 10/30/20 13:40
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	556892	11/02/20 16:17	WJD	TAL BUF
Total Recoverable	Prep	200.7			557228	11/04/20 09:04	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	557589	11/04/20 18:58	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	557177	11/04/20 11:55	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	557173	11/03/20 12:32	BEF	TAL BUF

Client Sample ID: Influent
Date Collected: 10/30/20 13:55
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	556892	11/02/20 16:40	WJD	TAL BUF
Total Recoverable	Prep	200.7			557228	11/04/20 09:04	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	557589	11/04/20 19:27	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	557177	11/04/20 11:55	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	557173	11/03/20 12:34	BEF	TAL BUF

Client Sample ID: Trip Blank
Date Collected: 10/30/20 00:00
Date Received: 10/30/20 15:20

Lab Sample ID: 480-177410-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	556892	11/02/20 17:03	WJD	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-177410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177410-1	Effluent	Water	10/30/20 13:40	10/30/20 15:20	
480-177410-2	Influent	Water	10/30/20 13:55	10/30/20 15:20	
480-177410-3	Trip Blank	Water	10/30/20 00:00	10/30/20 15:20	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sean T. Connolly	Lab PM: Ferguson, Katelyn M	Carrier Tracking No(s):	COC No: 480-150270-28522.1
Client Contact: Mr. Dino Zack	Phone: 716 393 0376	E-Mail: katelyn.ferguson@Eurofinset.com		Page: Page 1 of 1
Company: AECOM				Job #:

Address: 257 West Genesee Street Suite 400	Due Date Requested:
City: Buffalo	TAT Requested (days):
State, Zip: NY, 14202-2657	
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 5070005494
Email: dino.zack@aecom.com	WO #:
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwat	Project #: 48002447
Site: New York	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	10/30/20	1340	G	Water	N	N		3		1		
Influent		1355	G	Water	N	N		3		1		
Trip Blank	↓	-	G	Water	N	N		1				

480-177410 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/30/20 1520	Company: Aecom	Received by:	Date/Time: 10/30/20 1520	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 #1 ICE

Ver: 01/16/2019

Page 17 of 17

11/9/2020

November 2020

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 36 F
Date: 11/24/2020 Arrival Time: 07:30 Departure Time: 08:30

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See comments section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		Condensation on the floor; slight drip from air stripper
Building Heater	X	Breaker turned on. Was off on arrival.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	
EW-1 Transducer	**X**	
EW-1 Flow Meter	**X**	
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	System was on upon arrival. There was discharge at outfall.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	276 Inches
Flow Meter Reading	8,444,688 Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	169 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	169 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	16.0 Inches H2O

Effluent Flow

Total System Meter Reading	71,424,280 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

Total system flow on system totalizer flow meter timed at 3.5 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (3Q2020) were collected on September 17, 2020.

The most recent acid wash was performed on September 16, 2020 by Matrix Technologies Inc.

The system was up and running and the November 2020 samples were able to be collected today.

Table 1
November 24, 2020 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	5,457	5,457	144,000	gpd	NA	NA	NA
pH	7.9	8.2	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 7	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 7	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 8	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 6.5	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 12	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	< 42	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	12	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 9.5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	2,700	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	1,110	797	3,000	ug/L	0.04	3.61	lbs/day
TSS	< 4.0	8.0	20	mg/L	0.36		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured October 30, 2020 through November 24, 2020.*

Table 2
November 24, 2020 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 11/24/2020	units	Prior Report 10/30/2020
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	276	Inches	282
Flow Meter Reading	8,444,688	gallons	8,444,688
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	169	Inches	175
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	169	Inches	194
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	16.0	inches H_2O	12.5
Effluent Flow			
Total System Meter Reading	71,424,280	gallons	71,293,303
Average System Flow Since Prior Report	5,457	gpd	
	227.4	gph	
	3.8	gpm	
Influent o-Chlorotoluene concentration	2,700	ug/L	
Current month mass removal	1.3	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-178668-1
Client Project/Site: ChemTrol Site: Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
12/14/2020 9:35:41 AM

Lisa Shaffer, Senior Project Manager
(716)504-9816
Lisa.Shaffer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Job ID: 480-178668-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-178668-1

Comments
No additional comments.

Receipt
The samples were received on 11/24/2020 11:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-178668-1) and Influent (480-178668-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Client Sample ID: Effluent — Lab Sample ID: 480-178668-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	797		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	8.0		4.0		mg/L	1		SM 2540D	Total/NA
pH	8.2	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.3	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-178668-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12		8.5		ug/L	50		624	Total/NA
o-Chlorotoluene	2700		7.5		ug/L	50		624	Total/NA
Iron	1110		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.2	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-178668-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Client Sample ID: Effluent

Date Collected: 11/24/20 07:45
Date Received: 11/24/20 11:25

Lab Sample ID: 480-178668-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			12/04/20 04:06	1
1,1-Dichloroethane	ND		5.0		ug/L			12/04/20 04:06	1
1,1-Dichloroethene	ND		5.0		ug/L			12/04/20 04:06	1
Benzene	ND		5.0		ug/L			12/04/20 04:06	1
Chlorobenzene	ND		5.0		ug/L			12/04/20 04:06	1
Chloroethane	ND		5.0		ug/L			12/04/20 04:06	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/04/20 04:06	1
Toluene	ND		5.0		ug/L			12/04/20 04:06	1
Trichloroethene	ND		5.0		ug/L			12/04/20 04:06	1
o-Chlorotoluene	ND		5.0		ug/L			12/04/20 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*12/04/20 04:06*	*1*
4-Bromofluorobenzene (Surr)	*92*		*47 - 134*		*12/04/20 04:06*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*12/04/20 04:06*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**797**		50.0		ug/L		12/04/20 11:05	12/05/20 06:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**8.0**		4.0		mg/L			11/27/20 10:57	1
pH	**8.2**	**HF**	0.1		SU			12/11/20 14:23	1
Temperature	**22.3**	**HF**	0.001		Degrees C			12/11/20 14:23	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Client Sample ID: Influent

Date Collected: 11/24/20 08:40
Date Received: 11/24/20 11:25

Lab Sample ID: 480-178668-2

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		12		ug/L			12/04/20 13:37	50
1,1-Dichloroethane	**12**		8.5		ug/L			12/04/20 13:37	50
1,1-Dichloroethene	ND		9.5		ug/L			12/04/20 13:37	50
Benzene	ND		6.5		ug/L			12/04/20 13:37	50
Chlorobenzene	ND		7.0		ug/L			12/04/20 13:37	50
Chloroethane	ND		42		ug/L			12/04/20 13:37	50
cis-1,2-Dichloroethene	ND		8.0		ug/L			12/04/20 13:37	50
Toluene	ND		7.0		ug/L			12/04/20 13:37	50
Trichloroethene	ND		5.0		ug/L			12/04/20 13:37	50
o-Chlorotoluene	**2700**		7.5		ug/L			12/04/20 13:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 130*		*12/04/20 13:37*	*50*
4-Bromofluorobenzene (Surr)	*92*		*47 - 134*		*12/04/20 13:37*	*50*
Toluene-d8 (Surr)	*99*		*69 - 122*		*12/04/20 13:37*	*50*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1110**		50.0		ug/L		12/04/20 11:05	12/05/20 06:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/27/20 10:57	1
pH	**7.9**	**HF**	0.1		SU			12/11/20 14:26	1
Temperature	**22.2**	**HF**	0.001		Degrees C			12/11/20 14:26	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Client Sample ID: Trip Blank

Date Collected: 11/24/20 00:00
Date Received: 11/24/20 11:25

Lab Sample ID: 480-178668-3

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			12/04/20 05:57	1
1,1-Dichloroethane	ND		5.0		ug/L			12/04/20 05:57	1
1,1-Dichloroethene	ND		5.0		ug/L			12/04/20 05:57	1
Benzene	ND		5.0		ug/L			12/04/20 05:57	1
Chlorobenzene	ND		5.0		ug/L			12/04/20 05:57	1
Chloroethane	ND		5.0		ug/L			12/04/20 05:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/04/20 05:57	1
Toluene	ND		5.0		ug/L			12/04/20 05:57	1
Trichloroethene	ND		5.0		ug/L			12/04/20 05:57	1
o-Chlorotoluene	ND		5.0		ug/L			12/04/20 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 130*		*12/04/20 05:57*	*1*
4-Bromofluorobenzene (Surr)	*92*		*47 - 134*		*12/04/20 05:57*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*12/04/20 05:57*	*1*

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-463903/8
Matrix: Water
Analysis Batch: 463903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			12/03/20 18:31	1
1,1-Dichloroethane	ND		5.0		ug/L			12/03/20 18:31	1
1,1-Dichloroethene	ND		5.0		ug/L			12/03/20 18:31	1
Benzene	ND		5.0		ug/L			12/03/20 18:31	1
Chlorobenzene	ND		5.0		ug/L			12/03/20 18:31	1
Chloroethane	ND		5.0		ug/L			12/03/20 18:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/03/20 18:31	1
Toluene	ND		5.0		ug/L			12/03/20 18:31	1
Trichloroethene	ND		5.0		ug/L			12/03/20 18:31	1
o-Chlorotoluene	ND		5.0		ug/L			12/03/20 18:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 130*		*12/03/20 18:31*	*1*
4-Bromofluorobenzene (Surr)	*91*		*47 - 134*		*12/03/20 18:31*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*12/03/20 18:31*	*1*

Lab Sample ID: LCS 240-463903/5
Matrix: Water
Analysis Batch: 463903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.9		ug/L		100	52 - 162
1,1-Dichloroethane	20.0	20.7		ug/L		103	59 - 155
1,1-Dichloroethene	20.0	21.8		ug/L		109	10 - 234
Benzene	20.0	20.8		ug/L		104	37 - 151
Chlorobenzene	20.0	20.3		ug/L		102	37 - 160
Chloroethane	20.0	20.3		ug/L		101	14 - 230
Toluene	20.0	21.5		ug/L		107	47 - 150
Trichloroethene	20.0	18.8		ug/L		94	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*
Toluene-d8 (Surr)	*102*		*69 - 122*

Lab Sample ID: 480-178668-1 MS
Matrix: Water
Analysis Batch: 463903

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		100	96.6		ug/L		97	52 - 162
1,1-Dichloroethane	ND		100	104		ug/L		104	59 - 155
1,1-Dichloroethene	ND		100	104		ug/L		104	10 - 234
Benzene	ND		100	101		ug/L		101	37 - 151
Chlorobenzene	ND		100	96.6		ug/L		97	37 - 160
Chloroethane	ND		100	99.3		ug/L		99	14 - 230
Toluene	ND		100	104		ug/L		104	47 - 150
Trichloroethene	ND		100	86.8		ug/L		87	71 - 157

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	104		69 - 122

Lab Sample ID: 480-178668-1 MSD
Matrix: Water
Analysis Batch: 463903

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		100	96.9		ug/L		97	52 - 162	0	35
1,1-Dichloroethane	ND		100	102		ug/L		102	59 - 155	2	35
1,1-Dichloroethene	ND		100	105		ug/L		105	10 - 234	2	35
Benzene	ND		100	101		ug/L		101	37 - 151	0	35
Chlorobenzene	ND		100	95.8		ug/L		96	37 - 160	1	35
Chloroethane	ND		100	97.9		ug/L		98	14 - 230	1	35
Toluene	ND		100	101		ug/L		101	47 - 150	3	35
Trichloroethene	ND		100	88.2		ug/L		88	71 - 157	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 130
4-Bromofluorobenzene (Surr)	107		47 - 134
Toluene-d8 (Surr)	106		69 - 122

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-561855/1-A
Matrix: Water
Analysis Batch: 562217

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 561855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		12/04/20 11:05	12/05/20 04:49	1

Lab Sample ID: LCS 480-561855/2-A
Matrix: Water
Analysis Batch: 562217

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 561855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	9539		ug/L		95	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-561084/1
Matrix: Water
Analysis Batch: 561084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/27/20 10:57	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-561084/2
Matrix: Water
Analysis Batch: 561084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	897	888.8		mg/L		99	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-562977/23
Matrix: Water
Analysis Batch: 562977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

GC/MS VOA

Analysis Batch: 463903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178668-1	Effluent	Total/NA	Water	624	
480-178668-2	Influent	Total/NA	Water	624	
480-178668-3	Trip Blank	Total/NA	Water	624	
MB 240-463903/8	Method Blank	Total/NA	Water	624	
LCS 240-463903/5	Lab Control Sample	Total/NA	Water	624	
480-178668-1 MS	Effluent	Total/NA	Water	624	
480-178668-1 MSD	Effluent	Total/NA	Water	624	

Metals

Prep Batch: 561855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178668-1	Effluent	Total Recoverable	Water	200.7	
480-178668-2	Influent	Total Recoverable	Water	200.7	
MB 480-561855/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-561855/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 562217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178668-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	561855
480-178668-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	561855
MB 480-561855/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	561855
LCS 480-561855/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	561855

General Chemistry

Analysis Batch: 561084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178668-1	Effluent	Total/NA	Water	SM 2540D	
480-178668-2	Influent	Total/NA	Water	SM 2540D	
MB 480-561084/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-561084/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 562977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178668-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-178668-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-562977/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Client Sample ID: Effluent

Lab Sample ID: 480-178668-1

Date Collected: 11/24/20 07:45

Matrix: Water

Date Received: 11/24/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	463903	12/04/20 04:06	TJL1	TAL CAN
Total Recoverable	Prep	200.7			561855	12/04/20 11:05	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	562217	12/05/20 06:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	561084	11/27/20 10:57	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	562977	12/11/20 14:23	KMF	TAL BUF

Client Sample ID: Influent

Lab Sample ID: 480-178668-2

Date Collected: 11/24/20 08:40

Matrix: Water

Date Received: 11/24/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		50	463903	12/04/20 13:37	TJL1	TAL CAN
Total Recoverable	Prep	200.7			561855	12/04/20 11:05	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	562217	12/05/20 06:26	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	561084	11/27/20 10:57	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	562977	12/11/20 14:26	KMF	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-178668-3

Date Collected: 11/24/20 00:00

Matrix: Water

Date Received: 11/24/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	463903	12/04/20 05:57	TJL1	TAL CAN

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CAN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-178668-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178668-1	Effluent	Water	11/24/20 07:45	11/24/20 11:25	
480-178668-2	Influent	Water	11/24/20 08:40	11/24/20 11:25	
480-178668-3	Trip Blank	Water	11/24/20 00:00	11/24/20 11:25	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: S. Connolly	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 480-149062-28522.1
Client Contact: Mr. Dino Zack	Phone: (716) 393-0570	E-Mail: roxanne.cisneros@Eurofinset.com		Page: Page 1 of 1
Company: AECOM				Job #:
Address: 257 West Genesee Street Suite 400	Due Date Requested:			
City: Buffalo	TAT Requested (days): STD			
State, Zip: NY, 14202-2657				
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 5070005494			
Email: dino.zack@aecom.com	WO #:			
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwat	Project #: 48002447			
Site: New York	SSOW#:			

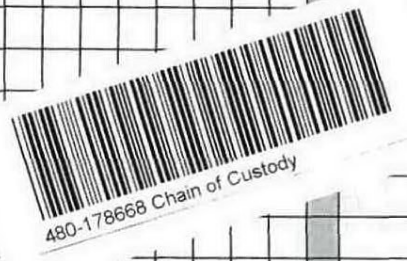
Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	11/24/20	0725	G	Water	N	N	1	3	1	1		
Influent	11/24/20	0810	G	Water	N	N	1	3	1	1		
Trip Blank	11/24/20	-	-	Water	N	N		1				



Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	S. Connolly	11/24/20 1125	Aecom	Cwalker	11/24/20 1125	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 #1 ICE

Ver: 01/16/2019

Page 17 of 17

12/14/2020

December 2020

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 25 F
Date: 12/24/2020 Arrival Time: 07:30 Departure Time: 09:00

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See comments section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		Condensation on the floor; slight drip from air stripper
Building Heater	X	Breaker turned on. Was off on arrival.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	
EW-1 Transducer	**X**	
EW-1 Flow Meter	**X**	
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	System was on off upon arrival. There was no discharge at outfall.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	279 Inches
Flow Meter Reading	8,444,688 Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	183 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	242 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	0.0 Inches H2O

Effluent Flow

Total System Meter Reading	71,533,536 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

Total system flow on system totalizer flow meter timed at 0.0 gpm. The system was down upon arrival.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (3Q2020) were collected on September 17, 2020.

The most recent acid wash was performed on September 16, 2020 by Matrix Technologies Inc.

The system was down, the December 2020 samples couldn't be collected today. Matrix was contacted to perform a service visit.

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 36 F
Date: 1/04/2021 Arrival Time: 09:30 Departure Time: 14:30

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See comments section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		Condensation on the floor; slight drip from air stripper
Building Heater	X	Breaker turned on. Was off on arrival.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	
EW-1 Transducer	**X**	
EW-1 Flow Meter	**X**	
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	System was on upon arrival. There was discharge at outfall.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	293 Inches
Flow Meter Reading	8,444,688 Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	194 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	217 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	17.5 Inches H2O

Effluent Flow

Total System Meter Reading	71,608,015 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

Total system flow on system totalizer flow meter timed at 5.5 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (4Q2020) were collected today, on January 4, 2021.

The most recent acid wash was performed on September 16, 2020 by Matrix Technologies Inc.

The system was up and running and samples were able to be collected today.

Table 1
January 4, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	4,593	4,593	144,000	gpd	NA	NA	NA
pH	7.0	8.2	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	1,600	**11**	10	ug/L	0.0004	0.012	lbs/day
Iron - Total	668	474	3,000	ug/L	0.02	3.61	lbs/day
TSS	< 4.0	< 4.0	20	mg/L	< 0.15		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured November 24, 2020 through January 4, 2021.*

Table 2
January 4, 2020 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 1/4/2021	units	Prior Report 11/24/2020
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	293	Inches	276
Flow Meter Reading	8,444,688	gallons	8,444,688
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	194	Inches	169
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	217	Inches	169
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	17.5	inches H_2O	16.0
Effluent Flow			
Total System Meter Reading	71,608,015	gallons	71,424,280
Average System Flow Since Prior Report	4,593	gpd	
	191.4	gph	
	3.2	gpm	
Influent o-Chlorotoluene concentration	2,700	ug/L	
Current month mass removal	1.9	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-179812-1
Client Project/Site: ChemTrol Site: Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
1/7/2021 12:15:24 PM
Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Lisa Shaffer, Senior Project Manager
(716)504-9816
Lisa.Shaffer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-179812-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-179812-1

Comments
No additional comments.

Receipt
The samples were received on 1/5/2021 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS VOA
Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-179812-2), (480-179812-D-2 MS) and (480-179812-D-2 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-179812-1) and Influent (480-179812-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Client Sample ID: Effluent — Lab Sample ID: 480-179812-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	11		5.0		ug/L	1		624.1	Total/NA
Iron	474		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.7	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-179812-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1600	F1	13		ug/L	40		624.1	Total/NA
Iron	668		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.0	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.6	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-179812-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Client Sample ID: Effluent

Date Collected: 01/04/21 13:00
Date Received: 01/05/21 08:00

Lab Sample ID: 480-179812-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/05/21 16:09	1
1,1-Dichloroethane	ND		5.0		ug/L			01/05/21 16:09	1
1,1-Dichloroethene	ND		5.0		ug/L			01/05/21 16:09	1
Benzene	ND		5.0		ug/L			01/05/21 16:09	1
Chlorobenzene	ND		5.0		ug/L			01/05/21 16:09	1
Chloroethane	ND		5.0		ug/L			01/05/21 16:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/05/21 16:09	1
Toluene	ND		5.0		ug/L			01/05/21 16:09	1
Trichloroethene	ND		5.0		ug/L			01/05/21 16:09	1
o-Chlorotoluene	**11**		5.0		ug/L			01/05/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 130*		*01/05/21 16:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*01/05/21 16:09*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*01/05/21 16:09*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**474**		50.0		ug/L		01/06/21 09:05	01/06/21 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/05/21 12:44	1
pH	**7.9**	**HF**	0.1		SU			01/05/21 11:54	1
Temperature	**19.7**	**HF**	0.001		Degrees C			01/05/21 11:54	1

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Client Sample ID: Influent

Date Collected: 01/04/21 13:20
Date Received: 01/05/21 08:00

Lab Sample ID: 480-179812-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			01/05/21 16:33	40
1,1-Dichloroethane	ND		24		ug/L			01/05/21 16:33	40
1,1-Dichloroethene	ND		34		ug/L			01/05/21 16:33	40
Benzene	ND		24		ug/L			01/05/21 16:33	40
Chlorobenzene	ND		19		ug/L			01/05/21 16:33	40
Chloroethane	ND		35		ug/L			01/05/21 16:33	40
cis-1,2-Dichloroethene	ND		23		ug/L			01/05/21 16:33	40
Toluene	ND		18		ug/L			01/05/21 16:33	40
Trichloroethene	ND		24		ug/L			01/05/21 16:33	40
o-Chlorotoluene	**1600**	**F1**	13		ug/L			01/05/21 16:33	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*01/05/21 16:33*	*40*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*01/05/21 16:33*	*40*
Toluene-d8 (Surr)	*101*		*77 - 120*		*01/05/21 16:33*	*40*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**668**		50.0		ug/L		01/06/21 09:05	01/06/21 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/05/21 12:44	1
pH	**7.0**	**HF**	0.1		SU			01/05/21 11:59	1
Temperature	**19.6**	**HF**	0.001		Degrees C			01/05/21 11:59	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Client Sample ID: Trip Blank

Date Collected: 01/04/21 00:00
Date Received: 01/05/21 08:00

Lab Sample ID: 480-179812-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/05/21 16:56	1
1,1-Dichloroethane	ND		5.0		ug/L			01/05/21 16:56	1
1,1-Dichloroethene	ND		5.0		ug/L			01/05/21 16:56	1
Benzene	ND		5.0		ug/L			01/05/21 16:56	1
Chlorobenzene	ND		5.0		ug/L			01/05/21 16:56	1
Chloroethane	ND		5.0		ug/L			01/05/21 16:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/05/21 16:56	1
Toluene	ND		5.0		ug/L			01/05/21 16:56	1
Trichloroethene	ND		5.0		ug/L			01/05/21 16:56	1
o-Chlorotoluene	ND		5.0		ug/L			01/05/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*01/05/21 16:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*01/05/21 16:56*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*01/05/21 16:56*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-565173/7
Matrix: Water
Analysis Batch: 565173

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/05/21 13:47	1
1,1-Dichloroethane	ND		5.0		ug/L			01/05/21 13:47	1
1,1-Dichloroethene	ND		5.0		ug/L			01/05/21 13:47	1
Benzene	ND		5.0		ug/L			01/05/21 13:47	1
Chlorobenzene	ND		5.0		ug/L			01/05/21 13:47	1
Chloroethane	ND		5.0		ug/L			01/05/21 13:47	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/05/21 13:47	1
Toluene	ND		5.0		ug/L			01/05/21 13:47	1
Trichloroethene	ND		5.0		ug/L			01/05/21 13:47	1
o-Chlorotoluene	ND		5.0		ug/L			01/05/21 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*01/05/21 13:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*01/05/21 13:47*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*01/05/21 13:47*	*1*

Lab Sample ID: LCS 480-565173/5
Matrix: Water
Analysis Batch: 565173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	52 - 162
1,1-Dichloroethane	20.0	19.7		ug/L		99	59 - 155
1,1-Dichloroethene	20.0	20.2		ug/L		101	1 - 234
Benzene	20.0	19.8		ug/L		99	37 - 151
Chlorobenzene	20.0	19.8		ug/L		99	37 - 160
Chloroethane	20.0	19.6		ug/L		98	14 - 230
Toluene	20.0	19.7		ug/L		98	47 - 150
Trichloroethene	20.0	20.0		ug/L		100	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*

Lab Sample ID: 480-179812-2 MS
Matrix: Water
Analysis Batch: 565173

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		800	889		ug/L		111	52 - 162
1,1-Dichloroethane	ND		800	880		ug/L		110	59 - 155
1,1-Dichloroethene	ND		800	892		ug/L		112	1 - 234
Benzene	ND		800	859		ug/L		107	37 - 151
Chlorobenzene	ND		800	834		ug/L		104	37 - 160
Chloroethane	ND		800	852		ug/L		106	14 - 230
Toluene	ND		800	844		ug/L		105	47 - 150
Trichloroethene	ND		800	854		ug/L		107	71 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*

Lab Sample ID: 480-179812-2 MSD
Matrix: Water
Analysis Batch: 565173

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		800	861		ug/L		108	52 - 162	3	15
1,1-Dichloroethane	ND		800	799		ug/L		100	59 - 155	10	15
1,1-Dichloroethene	ND		800	837		ug/L		105	1 - 234	6	15
Benzene	ND		800	823		ug/L		103	37 - 151	4	15
Chlorobenzene	ND		800	821		ug/L		103	37 - 160	2	15
Chloroethane	ND		800	799		ug/L		100	14 - 230	6	15
Toluene	ND		800	801		ug/L		100	47 - 150	5	15
Trichloroethene	ND		800	817		ug/L		102	71 - 157	4	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-565246/1-A
Matrix: Water
Analysis Batch: 565410

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 565246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		01/06/21 09:05	01/06/21 14:47	1

Lab Sample ID: LCS 480-565246/2-A
Matrix: Water
Analysis Batch: 565410

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 565246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	9762		ug/L		98	85 - 115

Lab Sample ID: 480-179812-1 MS
Matrix: Water
Analysis Batch: 565410

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 565246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	474		10000	9872		ug/L		94	70 - 130

Lab Sample ID: 480-179812-1 MSD
Matrix: Water
Analysis Batch: 565410

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 565246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	474		10000	10090		ug/L		96	70 - 130	2	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-565199/1
Matrix: Water
Analysis Batch: 565199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/05/21 12:44	1

Lab Sample ID: LCS 480-565199/2
Matrix: Water
Analysis Batch: 565199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			1520	1498		mg/L		99	88 - 110		

Lab Sample ID: 480-179812-1 DU
Matrix: Water
Analysis Batch: 565199

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Lab Sample ID: 480-179812-2 DU
Matrix: Water
Analysis Batch: 565199

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-565189/1
Matrix: Water
Analysis Batch: 565189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-179812-1 DU
Matrix: Water
Analysis Batch: 565189

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9	HF		8.0		SU				0.4	5
Temperature	19.7	HF		19.4		Degrees C				1	10

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

GC/MS VOA

Analysis Batch: 565173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179812-1	Effluent	Total/NA	Water	624.1	
480-179812-2	Influent	Total/NA	Water	624.1	
480-179812-3	Trip Blank	Total/NA	Water	624.1	
MB 480-565173/7	Method Blank	Total/NA	Water	624.1	
LCS 480-565173/5	Lab Control Sample	Total/NA	Water	624.1	
480-179812-2 MS	Influent	Total/NA	Water	624.1	
480-179812-2 MSD	Influent	Total/NA	Water	624.1	

Metals

Prep Batch: 565246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179812-1	Effluent	Total Recoverable	Water	200.7	
480-179812-2	Influent	Total Recoverable	Water	200.7	
MB 480-565246/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-565246/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-179812-1 MS	Effluent	Total Recoverable	Water	200.7	
480-179812-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 565410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179812-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	565246
480-179812-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	565246
MB 480-565246/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	565246
LCS 480-565246/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	565246
480-179812-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	565246
480-179812-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	565246

General Chemistry

Analysis Batch: 565189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179812-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-179812-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-565189/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-179812-1 DU	Effluent	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 565199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179812-1	Effluent	Total/NA	Water	SM 2540D	
480-179812-2	Influent	Total/NA	Water	SM 2540D	
MB 480-565199/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-565199/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-179812-1 DU	Effluent	Total/NA	Water	SM 2540D	
480-179812-2 DU	Influent	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Client Sample ID: Effluent
Lab Sample ID: 480-179812-1
Date Collected: 01/04/21 13:00
Matrix: Water
Date Received: 01/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	565173	01/05/21 16:09	WJD	TAL BUF
Total Recoverable	Prep	200.7			565246	01/06/21 09:05	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	565410	01/06/21 15:53	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	565199	01/05/21 12:44	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	565189	01/05/21 11:54	KEB	TAL BUF

Client Sample ID: Influent
Lab Sample ID: 480-179812-2
Date Collected: 01/04/21 13:20
Matrix: Water
Date Received: 01/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	565173	01/05/21 16:33	WJD	TAL BUF
Total Recoverable	Prep	200.7			565246	01/06/21 09:05	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	565410	01/06/21 16:15	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	565199	01/05/21 12:44	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	565189	01/05/21 11:59	KEB	TAL BUF

Client Sample ID: Trip Blank
Lab Sample ID: 480-179812-3
Date Collected: 01/04/21 00:00
Matrix: Water
Date Received: 01/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	565173	01/05/21 16:56	WJD	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site: Monthly

Job ID: 480-179812-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-179812-1	Effluent	Water	01/04/21 13:00	01/05/21 08:00	
480-179812-2	Influent	Water	01/04/21 13:20	01/05/21 08:00	
480-179812-3	Trip Blank	Water	01/04/21 00:00	01/05/21 08:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment America

Client Information	Sampler: Sean P Connelly	Lab PM: Shaffer, Lisa E	Carrier Tracking No(s):	COC No: 480-153884-28522.1
Client Contact: Chad Moose	Phone:	E-Mail: Lisa.Shaffer@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:	Analysis Requested		Job #:
Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:			Preservation Codes:
City: Morrisville	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 5070005494			
Email: cmoose@wm.com	WO #:			Other:
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447			
Site: New York	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	A	N	N		
Effluent	1/4/21	1300	G	Water	N	N	1	3	1	1		
Influent	↓	1320	G	Water	N	N	1	3	1	1		
Trip Blank		-	-	Water				1				

480-179812 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 1/5/21 @ 0800	Company: Aecom	Received by:		Date/Time: 1/5/21@0800	Company: Eurofins
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	3.2 +1		